
IV. AMENDMENTS TO THE CLAIMS

1. (CURRENTLY AMENDED) A melt spinning apparatus comprising:
a spinning unit disposing a spinning plate having a plurality of nozzles and
a cooling device disposed below said spinning ~~nozzle~~ plate,
wherein the nozzles of said spinning plate are arranged annular in at least
one circle, and a cylindrical filter is disposed at an exit of a cooling wind in said cooling
device so as to enclose around a spun yarn discharged from said spinning plate, the
annular diameter of said ~~nozzles~~ at least one circle being from no less than 0.6 times to
one time of the internal diameter of said cylindrical filter, and the flow velocity of the
cooling wind blown from said cylindrical filter being distributed gradually higher
according to the downstream of the spun yarn, and
wherein a plurality of rectifying vanes are arranged on an inner wall of said
cylindrical flow guide to extend radially toward the center of said cylindrical filter and at
intervals in the circumferential direction on said inner wall.
2. (ORIGINAL) A melt spinning apparatus as set forth in Claim 1,
wherein the center distance between the adjoining nozzles in said plurality
of nozzles is no less than 8 times of the diameter of said nozzles.
3. (ORIGINAL) A melt spinning apparatus as set forth in Claim 1 or 2,
wherein a cylindrical flow guide for said cooling wind is disposed to
enclose an outer circumference of said cylindrical filter, an inner wall of said cylindrical
flow guide made inclined close to an upper side of said cylindrical filter.
4. (CANCELED).
5. (ORIGINAL) A melt spinning apparatus as set forth in Claim 3, wherein a
guide tube is connected to the lower end of said cylindrical filter.